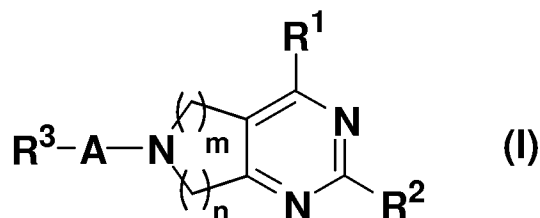


a.) Amendment to the Claims

1. (Currently Amended) A bicyclic pyrimidine derivative represented by following Formula (I):



{ wherein

~~m and n may be the same or different, and each represents an integer of 1 to 3 wherein m + n is 4 or less;~~

m represents 1,

n represents 2,

R¹ represents

-NR⁴R⁵ (wherein

R⁴ and R⁵ ~~may be the same or different and each represents~~ independently
represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted
or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl,
substituted or unsubstituted lower alkynyl, substituted or unsubstituted aralkyl,
substituted or unsubstituted arylcarbonyl, a substituted or unsubstituted
heteroaromatic group, a substituted or unsubstituted heteroalicyclic group,
substituted or unsubstituted heteroaromatic-substituted alkyl or substituted or
unsubstituted heteroalicyclic-substituted alkyl, or R⁴ and R⁵ are combined
together with the adjacent nitrogen atom to form a substituted or unsubstituted
heteroalicyclic group, provided that R⁴ and R⁵ are not simultaneously hydrogen

atoms, and that when one of R^4 and R^5 is a hydrogen atom, the other of R^4 and R^5 is neither a substituted or unsubstituted pyrazol-3-yl nor a substituted or unsubstituted 1,2,4-triazol-3-yl);

R^2 represents Formula (II):

~~(i) $B-(CX_2)_p-R^7$ [wherein~~

~~B represents $-O-$, $CH=CH-$, $C\equiv C-$ or phenylene;~~

~~p represents an integer of 1 to 4;~~

~~X s may be the same or different respectively, and each represents a hydrogen atom, substituted or unsubstituted lower alkyl or halogen; and~~

~~R^7 represents~~

~~$-NR^8R^9$ (wherein~~

~~R^8 and R^9 may be the same or different and each represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or~~

~~unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl,~~

~~substituted or unsubstituted lower alkynyl, substituted or unsubstituted~~

~~aralkyl, substituted or unsubstituted aryl, a substituted or unsubstituted~~

~~heteroaromatic group, a substituted or unsubstituted heteroalicyclic~~

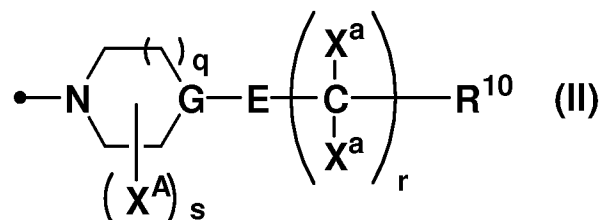
~~group, substituted or unsubstituted heteroaromatic substituted alkyl or~~

~~substituted or unsubstituted heteroalicyclic substituted alkyl);~~

~~a substituted or unsubstituted heteroaromatic group or~~

~~a substituted or unsubstituted heteroalicyclic group];~~

~~(ii) Formula (II):~~



[wherein

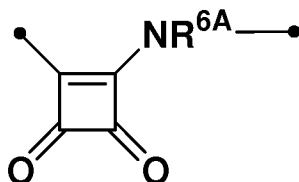
r represents an integer of 0 to 4;

s represents a number ranging from 0 to a substitutable number;

G represents a nitrogen atom, CH, C(OH), C(CO₂H) or C(CN);

q represents an integer of 1 or 2 when G is a nitrogen atom, and q represents an integer of 0 to 2 when G is CH, C(OH), C(CO₂H) or C(CN);

E represents a single bond, -C(=O)-, -O-, -CH(OH)-, -CH₂CH(OH)-, -C(=O)O-, -C(=O)NR⁶- (wherein R⁶ represents a hydrogen atom, substituted or unsubstituted lower alkyl or substituted or unsubstituted cycloalkyl) or



(wherein R^{6A} has the same meaning as R⁶ defined above), and E is bonded to G at the left side in each group;

X^A represents substituted or unsubstituted lower alkyl or halogen, or two X^As on the same carbon atom are combined together to form oxo, wherein respective X^As may be the same or different when s is 2 or more;

X^a has the same meaning as X defined above, where respective X^as may be the same or different when r is 1 or more; and

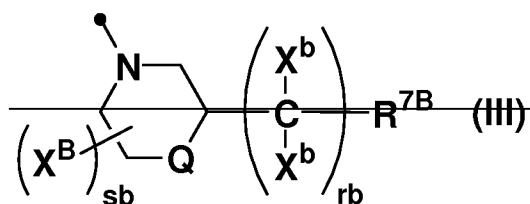
R¹⁰ represents

-NR^{8A}R^{9A} (wherein

R^{8A} and R^{9A} may be the same or different and each represents independently represent a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aralkyl, substituted or unsubstituted aryl, a substituted or unsubstituted heteroaromatic group, a substituted or unsubstituted heteroalicyclic group, substituted or unsubstituted heteroaromatic-substituted alkyl, substituted or unsubstituted heteroalicyclic-substituted alkyl, imino-(lower alkyl) or substituted or unsubstituted amidino),

a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkoxy, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aryl, substituted or unsubstituted aralkyl, a substituted or unsubstituted heteroaromatic group, a substituted or unsubstituted heteroalicyclic group, substituted or unsubstituted heteroaromatic-substituted ~~alkyl or~~ alkyl, or substituted or unsubstituted heteroalicyclic-substituted alkyl];

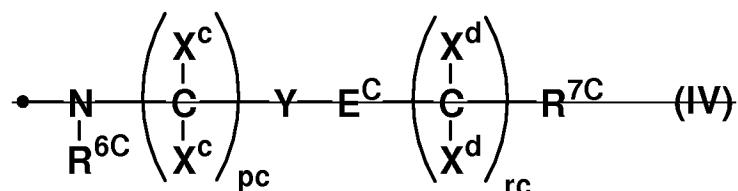
~~(iii) Formula (III):~~



[wherein s^B , r^B , X^B , X^b and R^{7B} have the same meanings as s , r , X^A , X^a and R^7 defined above, respectively; and

Q represents O , S , CH_2 or NR^{6B} (wherein R^{6B} has the same meaning as R^6 defined above)] or

(iv) Formula (IV):

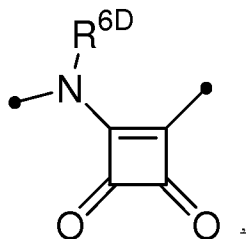


[wherein pc , rc , E^C , X^c , X^d and R^{6C} have the same meanings as p , r , E , X , X^a and R^6 defined above, respectively;

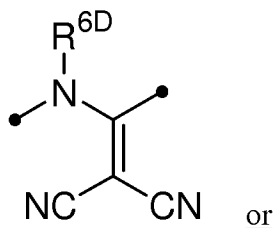
R^{7C} represents NR^8R^9 (wherein R^8 and R^9 have the same meaning as defined above, respectively), a substituted or unsubstituted heteroaromatic group or a substituted or unsubstituted heteroalicyclic group; and

Y represents a single bond, O or NR^{6D} (wherein R^{6D} has the same meaning as R^6 defined above)];

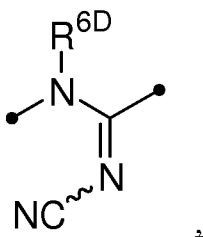
A represents a single bond, $-C(=O)-$, $-SO_2-$, $-NR^{6D}C(=O)-$ (wherein R^{6D} represents a hydrogen atom, substituted or unsubstituted lower alkyl or substituted or unsubstituted cycloalkyl, or is combined together with R^3 and the adjacent nitrogen atom to form a substituted or unsubstituted heterocyclic group), $-NR^{6D}C(=S)-$ (wherein R^{6D} has the same meaning as defined above), $-OC(=O)-$, $-OC(=S)-$, $-SC(=O)-$, $-SC(=S)-$,



(wherein R^{6D} has the same meaning as defined above);

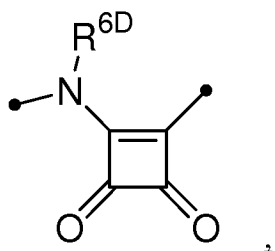


(wherein R^{6D} has the same meaning as defined above) or

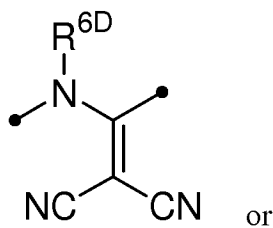


(wherein R^{6D} has the same meaning as defined above); and A is bonded to R^3 at the left side in the each group; and with the proviso that

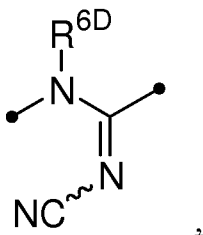
(a) when A is a single bond,



(wherein R^{6D} has the same meaning as defined above);



(wherein R^{6D} has the same meaning as defined above) or



(wherein R^{6D} has the same meaning as defined above),

then R^3 represents a hydrogen atom, substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aralkyl, substituted or unsubstituted aryl, a substituted or unsubstituted heteroaromatic group, a substituted or unsubstituted heteroalicyclic group, substituted or unsubstituted heteroaromatic-substituted alkyl or substituted or unsubstituted heteroalicyclic-substituted alkyl, and

(b) when A is $-C(=O)-$, $-SO_2-$, $-NR^{6D}C(=O)-$ (wherein R^{6D} has the same meaning as defined above), $-NR^{6D}C(=S)-$ (wherein R^{6D} has the same meaning as defined above), $-OC(=O)-$, $-OC(=S)-$, $-SC(=O)-$ or $-SC(=S)-$,

then R^3 represents substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted lower alkynyl, substituted or unsubstituted aralkyl, substituted or unsubstituted aryl, a substituted or unsubstituted heteroaromatic group, a substituted or unsubstituted heteroalicyclic group, substituted or unsubstituted heteroaromatic-substituted alkyl, substituted or unsubstituted

heteroalicyclic-substituted alkyl or $-NR^{8B}R^{9B}$ (wherein R^{8B} and R^{9B} have the same meanings as R^8 and R^9 defined above, respectively)),

or a quaternary ammonium salt thereof, or a pharmaceutically acceptable salt thereof.

Claims 2-3 (Cancelled).

4. (Currently Amended) The bicyclic pyrimidine ~~derivative~~, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to ~~any of claims 1 to 3~~ claim 1, wherein R^4 is a hydrogen atom; and R^5 is substituted or unsubstituted aralkyl.

5. (Currently Amended) The bicyclic pyrimidine ~~derivative~~, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to ~~claims 1 to 3~~ claim 1, wherein R^4 is a hydrogen atom; and R^5 is substituted or unsubstituted cycloalkyl.

Claims 6-10 (Cancelled).

11. (Currently Amended) The bicyclic pyrimidine ~~derivative~~, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to ~~claim 10~~ any of claims 1, 4 or 5, wherein s is 0.

12. (Currently Amended) The bicyclic pyrimidine ~~derivative~~, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 11, wherein q is 1 or 2.

13. (Currently Amended) The bicyclic pyrimidine ~~derivative~~, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 12, wherein X^a is a hydrogen atom.

14. (Currently Amended) The bicyclic pyrimidine ~~derivative~~, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 13, wherein R¹⁰ is -NR^{8A}R^{9A} (~~wherein R^{8A} and R^{9A} have the same meanings as defined above, respectively~~), a substituted or unsubstituted heteroaromatic group or a substituted or unsubstituted heteroalicyclic group.

15. (Currently Amended) The bicyclic pyrimidine ~~derivative~~, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 14, wherein R³ is substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted aralkyl, substituted or unsubstituted aryl or a substituted or unsubstituted heteroaromatic group.

Claims 16-27 (Cancelled).

28. (Currently Amended) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine ~~derivative~~, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to ~~any of claims 1 to 3~~ claim 11 and a pharmaceutically acceptable excipient.

Claims 29-43 (Cancelled).

44. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to any of claims 1, 4 or 5, wherein A is -C(=O)-, and R³ is substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted aralkyl or substituted or unsubstituted aryl.

45. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 11, wherein A is -C(=O)-, and R³ is substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted aralkyl or substituted or unsubstituted aryl.

46. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 12, wherein A is -C(=O)-, and R³ is substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted aralkyl or substituted or unsubstituted aryl.

47. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 13, wherein A is -C(=O)-, and R³ is substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted aralkyl or substituted or unsubstituted aryl.

48. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 14, wherein A is -C(=O)-, and R³ is substituted or unsubstituted lower alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted lower alkenyl, substituted or unsubstituted aralkyl or substituted or unsubstituted aryl.

49. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to any of claims 1, 4 or

5, wherein A is -C(=O)-, and R³ is -NR^{8B}R^{9B} (wherein R^{8B} and R^{9B} have the same meaning as R⁸ and R⁹, respectively).

50. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 11, wherein A is -C(=O)-, and R³ is -NR^{8B}R^{9B} (wherein R^{8B} and R^{9B} have the same meaning as R⁸ and R⁹, respectively).

51. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 12, wherein A is -C(=O)-, and R³ is -NR^{8B}R^{9B} (wherein R^{8B} and R^{9B} have the same meaning as R⁸ and R⁹, respectively).

52. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 13, wherein A is -C(=O)-, and R³ is -NR^{8B}R^{9B} (wherein R^{8B} and R^{9B} have the same meaning as R⁸ and R⁹, respectively).

53. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 14, wherein A is

-C(=O)-, and R^3 is $-NR^{8B}R^{9B}$ (wherein R^{8B} and R^{9B} have the same meaning as R^8 and R^9 , respectively).

54. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to any of claims 1, 4 or 5, wherein A is $-SO_2$, and R^3 is substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl or substituted or unsubstituted aryl.

55. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 11, wherein A is $-SO_2$, and R^3 is substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl or substituted or unsubstituted aryl.

56. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 12, wherein A is $-SO_2$, and R^3 is substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl or substituted or unsubstituted aryl.

57. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 13, wherein A is

-SO₂, and R³ is substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl or substituted or unsubstituted aryl.

58. (New) The bicyclic pyrimidine, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 14, wherein A is -SO₂, and R³ is substituted or unsubstituted lower alkyl, substituted or unsubstituted lower alkenyl or substituted or unsubstituted aryl.

59. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 44 and a pharmaceutical acceptable excipient.

60. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 45 and a pharmaceutical acceptable excipient.

61. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or

the pharmaceutically acceptable salt thereof according to claim 46 and a pharmaceutical acceptable excipient.

62. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 47 and a pharmaceutical acceptable excipient.

63. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 48 and a pharmaceutical acceptable excipient.

64. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 49 and a pharmaceutical acceptable excipient.

65. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or

the pharmaceutically acceptable salt thereof according to claim 50 and a pharmaceutical acceptable excipient.

66. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 51 and a pharmaceutical acceptable excipient.

67. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 52 and a pharmaceutical acceptable excipient.

68. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 53 and a pharmaceutical acceptable excipient.

69. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or

the pharmaceutically acceptable salt thereof according to claim 54 and a pharmaceutical acceptable excipient.

70. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 55 and a pharmaceutical acceptable excipient.

71. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 56 and a pharmaceutical acceptable excipient.

72. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 57 and a pharmaceutical acceptable excipient.

73. (New) A pharmaceutical composition which comprises, as an active ingredient, the bicyclic pyrimidine derivative, or the quaternary ammonium salt thereof, or the pharmaceutically acceptable salt thereof according to claim 58 and a pharmaceutical acceptable excipient.